

Approved For Release 2008/03/27 : CIA-RDP89-00244R000400680010-8

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[REDACTED]

This initiative ~~also~~ includes resources to study the need for a computerized switching system which will assist the Headquarters Technical Control Facility (TCF) in meeting switching requirements for the next decade. The installation of a computer controlled system in the TCF is needed to perform secure and unclassified switching functions, through use of a central processor and operator consoles, and to provide quality control for all communication channels transiting TCF. The operator consoles will be designed to permit monitoring of individual channels for quality, perform testing of degraded channels, and provide alternate channel routing as necessary to maintain customer service. It will be capable of handling any operating speed or mode, maintain separation of secure and unclassified signal areas, meet TEMPEST and OSHA noise level standards, and be modular in design for expansion. It will also contain built-in self-diagnostics and provide channel switching to a remote patch and test position to enable technical personnel to perform extended diagnostic checks without tying up one of the operator consoles.

The new switching system will have the capacity to handle [REDACTED] individual channels and approximately [REDACTED] separate carrier lines. Additional benefits to be gained from a computerized switching system are the elimination of secure and unclassified wiring frames, decrease in number of wiring runs required to install new circuits, and elimination of manual switchboards. Monitoring systems (Accuscan, Larse, environmental, etc.) would be wired into the CRT displays at operator consoles, thus eliminating equipment mounting racks.

An estimated four man-years will be required for specification development, hardware selection, procurement of a prototype, software development, test and evaluation, production procurement, and installation. With the entire Domestic Networks Division being relocated to the new Headquarters building, significant procurements of new equipment are mandatory and must be addressed now so as to be available when the building is ready for occupancy. The initial study will require [REDACTED] 1985, with costs estimated [REDACTED] over the 1986-1987 period and modest maintenance costs thereafter [REDACTED]

Also included in this initiative are:

[REDACTED] engineering and programmer positions to support [REDACTED] Comten communications controllers [REDACTED] in 1985 [REDACTED] in 1986) and corresponding upgrade of the TBAR switches attached to the Comten software development. Nonpersonal services for this effort [REDACTED] in 1985.

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